

Applications

- Automotive electronics
- Industrial electronics
- Home appliances

Features

- Glass-encapsulated, heat-resistive and highly stable
- For temperature measurement up to 300 °C
- Fast response
- Leads: dumet wires (copper-clad FeNi)

Options

Leads: nickel-plated wires

Delivery mode

Bulk

ø2,3±0,2
4,1±0,5
ø0,3
67±5
TNT0281-E

Dimensions in mm

Climatic category (IEC 60068-1)		55/300/56	
Max. power at 25 °C	P_{25}	50	mW
Resistance tolerance	$\Delta R_N/R_N$	± 1 %, ± 3 %, ± 5 %	
Rated temperature	T_N	25	°C
Dissipation factor (in air)	δ_{th}	approx. 1,3	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 15	s
Heat capacity	C_{th}	approx. 20	mJ/K

R_{25} Ω	No. of R/T characteristic	$B_{25/85}$ K	$B_{0/100}$ K	$B_{25/100}$ K	Ordering code
2 k	8401	3420	3390 ± 1 %	3436	B57560G0202+
5 k	8402	3480	3450 ± 1 %	3497	B57560G0502+
10 k	8407	3480	3450 ± 1 %	3497	B57560G0103+
20 k	8415	3992	3970 ± 1 %	4006	B57560G0203+
30 k	8415	3992	3970 ± 1 %	4006	B57560G0303+
50 k	8403	3992	3970 ± 1 %	4006	B57560G0503+
100 k	8404	4066	4036 ± 1 %	4085	B57560G0104+
230 k	8405	4240	4537 ± 1 %[1]	4264	B57560G0234+
1400 k	8406	4557	5133 ± 2 %[2]	4581	B57560G0145+

+: F000 for $\Delta R_N/R_N$ = ± 1 %; F002 for $\Delta R_N/R_N$ = ± 1 % for nickel-plated wires
H000 for $\Delta R_N/R_N$ = ± 3 %; H002 for $\Delta R_N/R_N$ = ± 3 % for nickel-plated wires
J000 for $\Delta R_N/R_N$ = ± 5 %; J002 for $\Delta R_N/R_N$ = ± 5 % for nickel-plated wires

1) $B_{100/200}$
2) $B_{200/300}$

Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature T: 300 °C t: 1000 h	< 3 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: 85 °C Relative humidity of air: 85 % Duration: 56 days	< 2 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: – 55 °C Upper test temperature: 200 °C Number of cycles: 1000	< 2 %	No visible damage

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Diese Broschüre ersetzt die vorige Ausgabe.

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